Page.
A New Use for Molasses 157
Varietal Trials, by Norman J. King 158
T. Tolentini, Mossman 158
Dispersed Trial—Fixter Bros., Aloomba 158
Hesp Bros., Aloomba 159
Johnson Bros., Gordonvale 159
Vessey and Son, Edge Hill 159
Northern Sugar Experiment Station, Meringa, Block A.5 160
Central Sugar Experiment Station, Mackay, Block A.5.. 161
Dispersed Trial—C. Zielke, Bundaberg 161
Golchert Bros., Barolin Road, Bundaberg 162
A. G. E. Hansen, Burnett Heads .. 162
Southern Sugar Experiment Station, Bundaberg, Block A.1 163
Southern Sugar Experiment Station, Bundaberg, Block A.2 163
Dispersed Trial—G. Whittaker, Maroochy River 164
Apps Bros., Maroochy River 164
Dispersed Trial—C. & G. Palu, North Gooburrum 165
E. H. Churchward, Gooburrum 165
The Hot-Water Treatment of Plants on the Farm, by C. G. Hughes 166
Unauthorised Cane Variety Plantings, by R. W. Mungomery .. 169
British Ferguson Tractors 170
Consolidation of Soil in Drills After Planting Cane, by G. A. Christie 171
A Useful Method of Conservation of Trash, by J. H. Buzacott .. 173
Droopy Top Disease of Sugar Cane, by D. R. L. Steindl 175
A Fertilizer and "Gammexane" Distributor, by E. V. Humphry .. 177
The C.C.S. Formula, by E. R. Behne 179
The 1948 Tractor School, by H. Reghenzani *et alia* 183

VOLUME XII

Contents

Q.50 and Trojan in the Mackay District, by J. T. Elliott 1
General Levy for 1948-49 3
The Cane Killing Weeds, by D. R. L. Steindl and E. A. Pembroke.. 4
Cane Samples for Small Mill Tests 9
Can Downy Mildew Disease be Eradicated in Queensland?, by Norman J. King 10
Field Days 12
Two Promising Legumes in North Queensland, by E. V. Humphry 13
Mackay Varietal Changes from 1933 to 1947, by J. T. Elliott .. 16
How Long Should Setts Be?, by C. G. Hughes 18
The Use of "Gammexane" in Controlling "White Grubs" in Queensland Canefields,* by R. W. Mungomery 21
Results of a Two-cycle Fertilizer Trial,* by L. G. Vallance .. 29
Variations in Primary Vigour in the Variety Q.28, by W. A. McDougall, D. R. L. Steindl and J. T. Elliott 31

* Papers presented at the Maryborough Conference, Q.S.S.C.T., April, 1948.

Page.

THE FIELD IDENTIFICATION OF CANE GRUBS,* by J. H. Buzacott .. 35
SPORTING IN CANE, by C. G. Hughes 40
PROCLAMATIONS UNDER SUGAR EXPERIMENT STATIONS ACTS 42
EXPERIMENT STATION FIELD DAYS, by Norman J. King 43
TREATMENT WITH FUNGICIDES AS A HELP TO BETTER STRIKES, by C. G. Hughes 54
SUGAR-CANE AGRICULTURE IN HAWAII, by J. L. Clayton 59
FORECAST OF APPROVED VARIETIES FOR 1949 80
Q.42 IN THE FAR SOUTHERN AREA, by N. McD. Smith 81
P.O.J.2878 IN THE WOONGARRA, by Norman J. King 83
THE PROHIBITION OF PLANTING P.O.J.2878 IN THE MORETON MILL AREA, by R. W. Mungomery 87
PUMPS AND PUMPING, by C. Gallagher 89
CULTURES FOR THE INOCULATION OF GREEN MANURE CROPS 99
FARMERS' CANE SAMPLES FOR TESTING 100
THE BUREAU OF SUGAR EXPERIMENT STATIONS. REVIEW OF THE YEAR'S WORK 103
LAND DRAINAGE IN THE MORETON AREA, by N. McD. Smith 108
Field Trials, 1948 Season, by Norman J. King 117
VARIETY TRIALS 117
C. BUCHANAN, Mossman 117
T. TOLENTINI, Mossman 118
DISPERSED TRIAL—JARRATT BROS., Branchcombe, Mackay 118
A. WELSH, Mia Mia, Mackay .. 119
H. C. POWELL, Alexandra, Mackay .. 119
J. C. RASMUSSEN, Sarina 120
DISPERSED TRIAL—G. WHITTAKER, Maroochy River .. 121
APPS BROS., Maroochy River .. 121
KENDALL BROS., Banyan Road, Bundaberg 122
PLANTING MATERIAL TRIAL—Mossman Rural School, Mossman 122
CULTIVATION TRIAL—J. Skidmore, Gordonvale 123
PERMANENT TRASH TRIAL—Sugar Experiment Station, Bundaberg 123
VARIETY TRIAL—Central Sugar Experiment Station, Mackay 124
APPLY FERTILIZERS EARLY! 124
FERTILIZER DISTRIBUTOR, by G. Bates 125
MERCURIAL FUNGICIDES ARE POISONOUS, by J. H. Buzacott 126
FIJI DISEASE IN THE MARYBOROUGH DISTRICT,* by Norman J. King .. 128
EXPERIMENT STATION FIELD DAYS 132
"GAMMEXANE" SUPPLIES FOR PEST BOARDS 132
ORDERS FOR RAT BAITS 133
APPROVED VARIETY LISTS FOR 1949 134
Soil Fertility Trials, by L. G. Vallance 137
FERTILIZER TRIALS 137
M. LAURIDSEN, Gordonvale 137
M. & N. RIDOLFI, Meringa 138
W. F. FRISBY, Maidavale, Ayr 139
L. GALEA, Alexandra, Mackay 139
H. HINTON, Rosella, Mackay 140
T. CAVE, Maroochy River 141

* Papers presented at the Maryborough Conference, Q.S.S.C.T., April, 1948

Page.
LIME TRIALS 142
FILTER MUD PLUS FERTILIZER TRIALS 143
SOUTHERN SUGAR EXPERIMENT STATION, Bundaberg 144
CENTRAL SUGAR EXPERIMENT STATION, Mackay .. 145
NITROGEN TRIALS 145

Varietal Trials, by Norman J. King 148
DISPERSED TRIAL—FIXTER BROS., Aloomba 148
HESP BROS., Aloomba 148
JOHNSON BROS., Gordonvale 149
VESSEY & SONS, Edge Hill 149
DISPERSED TRIAL—M. & N. RIDOLFI, Meringa 150
J. McKENZIE, Banna 150
L. PREGNO, Kamma 150
M. LAURIDSEN, Meerawa 151
A. E. COTTRELL, Aloomba 151
HICKEY SISTERS, Gordonvale 151
NORTHERN SUGAR EXPERIMENT STATION, Meringa 152
NORTHERN SUGAR EXPERIMENT STATION, Meringa (Ratoon crop) 152
DISPERSED TRIAL—W. J. HENDERSON, Innisfail 153
M. DARVENIZA, South Johnstone. 153
BILETTA AND MACCARONE, Moresby .. 154
V. SERES, Mourilyan 154
DISPERSED TRIAL—E. O'SULLIVAN, South Johnstone 155
A. LIZZIO, Mena Creek 155
F. J. McNAMARA, Mourilyan 155
A. THORNHILL, El Arish 156
P. GARRONE, Mourilyan 156
J. A. WINTER, Tully 156
DISPERSED TRIAL—F. A. JENSEN, Brandon 157
H. A. SHAND, Iona 157
MRS. M. T. MARSHALL, Home Hill .. 157
KALAMIA ESTATE, Ayr 158
DISPERSED TRIAL—B. RUBIOLO, Home Hill 158
MILBURN BROS., Home Hill 159
W. F. KLAKA, Iona 159
G. FOWLER, Home Hill 159
DISPERSED TRIAL—JOHNS AND THIELE, Proserpine 160
W. BIGGS AND SON, Proserpine 160
DISPERSED TRIAL—SIMPSON AND ROSIER, Walkerston .. 161
C. I. JOHNSON, Homebush Road 161
DISPERSED TRIAL—J. F. WALZ, Mirani 162
P. McFARLANE, Oakenden 162
GRANT AND GRANT, Glenella 163
J. TREVASKIS, Farleigh 163
CENTRAL SUGAR EXPERIMENT STATION, Mackay 164
DISPERSED TRIAL—C. ZIELKE, Sandhills Road 164
GOLCHFET BROS., Barolin Road 165
A. G. E. HANSEN, Burnett Heads .. 165

Page.

DISPERSED TRIAL—E. H. CHURCHWARD, Gooburrum 166
M. JACOBSEN, South Kalkie 166
PALU BROS., North Gooburrum 166
GIBSON AND HOWES LTD., Bingera 167
W. TRUSCOTT, Barolin Road, Bundaberg 168
DISPERSED TRIAL—D. REHBEIN, Duncraggan Road 168
H. KILLER, Sandhills Road 169
G. SEE, Seaview Road 169
SOUTHERN SUGAR EXPERIMENT STATION, Bundaberg, Block A.1 170
SOUTHERN SUGAR EXPERIMENT STATION, Bundaberg, Block D.2 170
DISPERSED TRIAL—N. H. WELLARD, Bli Bli 171
H. TREVOR, Maroochy River 171
J. J. COLLEY, Maroochy River 171

THE STALK ROTS OF STANDING CANE, by C. G. Hughes and D. R. L. Steindl 172

CUTTER PLANTERS IN THE MACKAY DISTRICT, by C. G. Story 180

Q.28 DISEASE, by D. R. L. Steindl 191

ERRATA 193